

Translation

10/539929

PATENT COOPERATION TREATY

PCT/DE2003/00334



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2002P18522WO	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/DE2003/003347	International filing date (day/month/year) 09 October 2003 (09.10.2003)	Priority date (day/month/year) 19 December 2002 (19.12.2002)
International Patent Classification (IPC) or national classification and IPC F02D 41/38		
Applicant SIEMENS AKTIENGESELLSCHAFT		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
 - a. (*sent to the applicant and to the International Bureau*) a total of _____ sheets, as follows:
 - sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
 - sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
 - b. (*sent to the International Bureau only*) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).
4. This report contains indications relating to the following items:
 - Box No. I Basis of the report
 - Box No. II Priority
 - Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
 - Box No. IV Lack of unity of invention
 - Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
 - Box No. VI Certain documents cited
 - Box No. VII Certain defects in the international application
 - Box No. VIII Certain observations on the international application

Date of submission of the demand 08 June 2004 (08.06.2004)	Date of completion of this report 26 August 2005 (26.08.2005)
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/DE2003/003347

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

This report is based on translations from the original language into the following language _____, which is language of a translation furnished for the purpose of:

- international search (under Rules 12.3 and 23.1(b))
- publication of the international application (under Rule 12.4)
- international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):

The international application as originally filed/furnished

the description:

pages _____
 pages* 1-12 received by this Authority on _____, as originally filed/furnished
 pages* _____ received by this Authority on 08 October 2004 (08.10.2004)

the claims:

pages _____, as originally filed/furnished
 pages* _____, as amended (together with any statement) under Article 19
 pages* 2-7, 9, 10 received by this Authority on 08 October 2004 (08.10.2004)
 pages* 1, 8 received by this Authority on 25 February 2005 (25.02.2005)

the drawings:

pages 1/4-4/4 _____, as originally filed/furnished
 pages* _____ received by this Authority on _____
 pages* _____ received by this Authority on _____

a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. The amendments have resulted in the cancellation of:

- the description, pages _____
- the claims, Nos. _____
- the drawings, sheets/figs _____
- the sequence listing (specify): _____
- any table(s) related to sequence listing (specify): _____

4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- the description, pages 1-12 _____
- the claims, Nos. _____
- the drawings, sheets/figs _____
- the sequence listing (specify): _____
- any table(s) related to sequence listing (specify): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/DE 03/03347

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

Novelty (N)	Claims	1-10	YES
	Claims		NO
Inventive step (IS)	Claims	1-10	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-10	YES
	Claims		NO

2. Citations and explanations**1. Closest prior art**

WO 01/83971 A (ROBERT BOSCH) discloses: a method and a device for identifying errors in a fuel injection system, the fuel injection system comprising a high-pressure pump (125), a fuel accumulator (130), a fuel pressure regulating valve (135) and a pressure sensor (140) for detecting pressure in the at least one fuel accumulator (130), the presence of an error in the fuel injection system being identifiable by detecting a filtered pressure value in the fuel accumulator (130).

2. Difference

Document D does not describe a comparison of the fuel pressure in the fuel accumulator (12) with a target pressure in a low-pressure area of the fuel injection system or with an actual pressure in a low-pressure area of the fuel injection system. Therefore, the requirements of PCT Article 33(2) have been met.

3. Problem

When the pressure in the fuel accumulator (high pressure) remains lower than that in the low-

INTERNATIONAL PRELIMINARY EXAMINATION REPORTInternational application No.
PCT/DE 03/03347

pressure area of the fuel injection system, it is difficult to trigger a fuel injection in the high-pressure area. It can then be concluded that an error is occurring somewhere.

4. Inventive step

The cited literature contains nothing that suggests comparing the current values of the pressure sensor to values from the low-pressure area in order to identify errors. Therefore, the requirements of PCT Article 33(3) have been met.

5. Dependent claims

Claims 2 to 7, 9 and 10 are dependent claims and relate to further developments of the subject matter of claim 1.

6. Industrial applicability

This application relates to the field of engine design, which is clearly industrially applicable.

7. Observation

Since no corrections in the description were announced, it was not possible to check whether the description has been properly drafted.